

ESSM 110Vdc/IR180

110Vdc **E**nergy **S**torage **S**ystem & **M**onitoring
with internal rectifier



- Nominal output 30A on grid
- Universal 120V to 240V single AC input
- Up to 680A during 10s
- 93% efficiency and 99% power factor correction
- Maintenance-free / Easy installation
- Embedded diagnosis in real-time
- Safe and Reliable Lithium technology
- 10 years lifetime

ESSM systems bring advanced technology to the UPS technology.

The ESSM 110Vdc/IR180 comes complete with distribution, controller and battery packs. With a maximum of 3kW output power, it is an ideal solution to meet the needs of uninterruptible power systems.

Remote setup, adjustment and control are simple with the ESSM controller. By utilizing TCP/IP technology, complete configuration and monitoring of power equipment is possible through a network web browser.



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110Vdc **E**nergy **S**torage **S**ystem & **M**onitoring with internal rectifier

P/N : ESSM110V_IR180



ELECTRICAL

Input voltage	180 to 264 Vac (output power 3000W) with derating: 180 to 207 Vac (output power 2500W)
Input frequency	45 to 65 Hz
Power factor:	> 0,99
Efficiency:	0,93
Output voltage:	89 to 115,2 Vdc
Output current:	30A on grid, up to 680A during 10s
Load regulation:	Static < 0,05% Dynamic < 0,15% 2ms recovery time
Line regulation:	Static < 0,02% Dynamic < 0,05% 2 ms recovery time
Ripple:	< 10mVpp (@ BWL 20MHz) < 4mVRMS (@ BWL 20MHz)
Capacity:	18,432 kWh

PERFORMANCE / FEATURES

Indicators:	Display TFT 4,3 inches
Cooling:	Natural convection (Battery packs) Fans (Power Control Unit)
Controls / Adjustments:	Float and equalize voltage Battery test voltage High and low voltage alarms High and low voltage shutdown Current limit
Protection:	Current limit / short circuit Input / output fuses Output high and low voltage shutdown Output power limit Input transient
Communication:	Supervision through web browser

MECHANICAL

Dimensions :	Power Control Unit: 600 x 560 x 400 mm Battery pack: 660 x 240 x 340 mm
Weight :	Power Control Unit: 38 kg Battery packs: 4 x 45 kg

ENVIRONMENTAL

Temperature:	Operation: 0 to 40°C Storage: -20 to 45°C
Humidity:	< 80%
Elevation:	-500 to 2000m

AGENCY COMPLIANCE

The ESSM110V_IR180 is designed to meet the following:

Safety:	CSA C22.2 No 60950-1-03 UL 60950-1 1st edition CE marked IEC/EN 60950-1 IEC 62619 UN 38.3 IEC/EN 62133
EMC:	ETSI 300 386 Emissions: EN 55022 Class B EN 61000-3 Immunity: EN 61000-4

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